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ACCESSION NR: AP4030340

S/0049/64/000/003/0374/0377

AUTHOR: Bondarev, V. I.

TITLE: The precision of determining direction of particle displacement during azimuthel seismic observations in dependence on angular error of instrument setting

SOURCE: AN SSSR. Izv. Ser. geofiz., no. 3, 1964, 374-377

TOPIC TAGS: azimuthal setup, seismograph, seismic exploration, geophone, particle displacement

ABSTRACT: Since azimuthal observations are used in seismic prospecting for quantitative călculations as well as for qualitative determinations, it is important to examine the effects of various kinds of angular errors on determining particle displacement. Factors affecting the accuracy of such determinations are: 1) difference in effective slope angle of seismograph relative to the platform, the plane of which is used in the computations; 2) deviation of actual azimuth from that used in the computations; 3) error in levelling the platform of the azimuthal apparatus; and 4) error in orienting the platform by azimuth. The author examines each of these and discusses the limiting values possible for precise computation. He concludes that in planning and setting up azimuthal equipment special care must

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be exercised to keep the average possible errors of azimuth and seismograph inclination to a minimum. For seismic exploration, results will be satisfactory if these two sources of error are kept below 2-3° (for azimuth) and 1-1.5° (for inclination). It is necessary to keep the error between angular inclination of geophones and the horizontal platform to a value of 2° or less during field operation. If these conditions are met, the effect of errors in orienting geophones or in levelling the platform on the computed azimuth and vertical angle of the displacement vector ment may be determined with satisfactory accuracy by an azimuthal setup. "In conclusion, the author expresses his thanks to the student N. R. Sivkov for testing the formulas and to M. M. Strelova for making the necessary computations." Orige

ASSOCIATION: Sverdlovskiy gornywy institut im. V. V. Vakhrusheva (Sverdlovsk Mining Institute)

SUBMITTED: 11May63

DATE ACQ: 29Apr64

ENCL: 00

SUB CODE: ES

NO REF SOV: 003

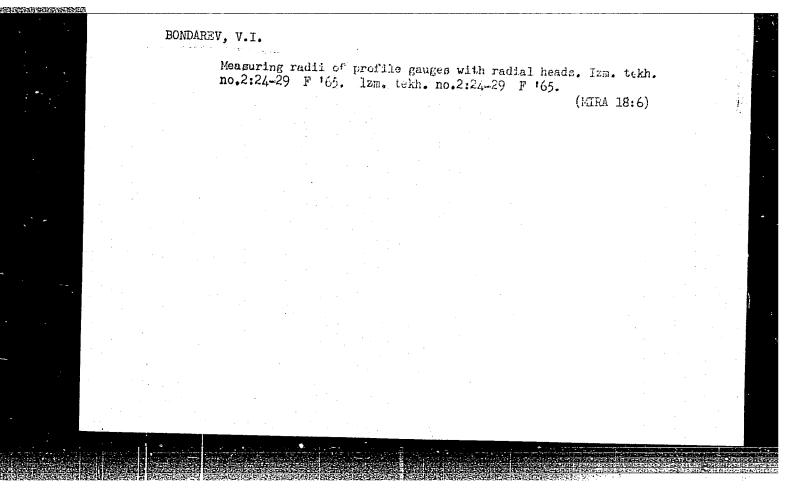
OTHER: 000

Card 2/2

SUKURENKO, Ye.I.; GRIGOR'YEV, V.I.; BONDAREV, V.I.

Causes of circulation loss in the oil fields of the Kuban.
Burenie no.2:15-18 '65. (MIRA 18:5)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchnoissledovatel'skogo instituta.



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ATLASOV, I.P.; BAKAR, V.A.; BONDAREV, V.I.; SYAGAYEV, N.A.; SOKOLOV, V.N.;

Sketches of the tectonic structure of the central sector of the Soviet Arctic. Trudy NIIGA 135:3-69 163.

(MIRA 18:5)

BONDARDV, V.1.

Plan for the subdivision of Ordovician sediments in the southern part of the Novaya Zemlya, Vaygach Island, and the northern part of the Pay-Khoy. Uch. zap. NIIGA no.5:5-15 '64.

(MIRA 18:8)

OBUT, Aleksandr Mikhaylovich; SOBOLETSWAYA, Rimma Fedorovna;
BONDAREV, Valentin Illich; SOKOLOV, B.S., prof., otv.
red.; KALANTAROV, A.P., red.

[Silurian graptolites of the Taymyr Peninsula] Graptolity
silura Taimyra. Moskva, Nauka, 1965. 119 p.

(MIRA 18:8)

1. Chlen-korrespondent AN SSSR (for Sokolov).

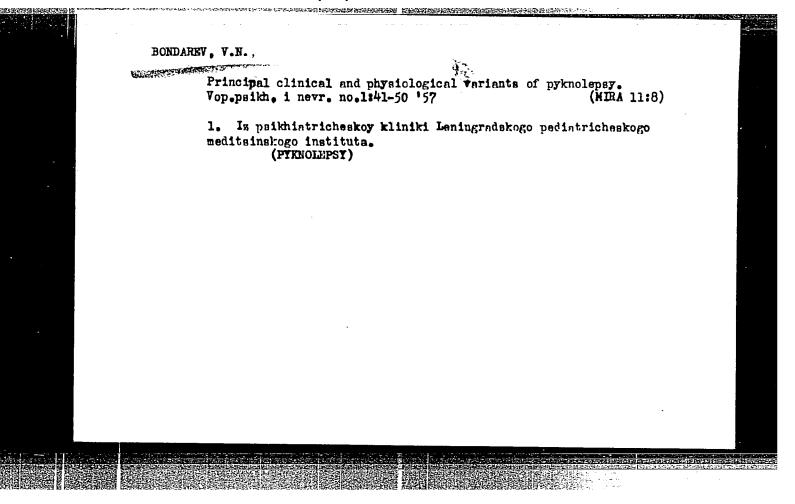
ACCESSION NR: AP5017793 UR/0387/65/000/005/0082/0093 550.83 AUTHOR: Bondaray, V. I. TITLE: A mothod of determining the parameters of elliptically polarized waves along cophasal axes of azimuthal seismograms SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 5, 1965, 82-93 TOPIC TAGS: seismograph, seismic wave, polarization, azimuth ABSTRACT: Several methods have been used, including stereographic projection, to determine the parameters of complex waves. The author describes a method of determining such parameters of elliptically polarized waves along cophasal axes of azimuthal seismograms. The method is based on an analytical study of the basic form patterns of cophasal axes of azimuthal seismograms. Starting with an equation to express the cophasal axis of an elliptically polarized wave, expressions are found for determining the position of the polarization plane. Two methods are employed here: study of the systematic positions of extreme points of the cophanal exis and use of only cophasal axes with extremes, and use of characteristic points of the cophasal axis, which is suitable for cophasal axes with or without

extremes, graphs (t of the no for cophe of use ma	ormal to the pola sal axes both wi	ormulas are easily reduced of in the article) for derization plane, and the forth and without extremes and method especially useful 23 formulas.	orm of the elli	th, inclin	ation grams
ASSOCIATI Mining In	ON: Sverdlovski	y gornyy institut im. V. 1	V. Vakhrusheva (Sverdlovs	<u>k</u>
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BCNDAREV, V.M.; GUBANOV, V.G.; KOROVIN, P.K.; OVCHINNIKOV, A.K.; KHAYKOVICH, I.M.; KIKONOVA, A.I., red.

[Gamma-sampling of uranium ores in their natural occurrece] Gamma-oprobovanie uranovykh rud v estestvennom zaleganii. Moskva, Izd-vo "Nedra," 1964. 204 p.

(MIRA 17:7)



BONDARRY, V.N.

The problem of galvanic skin reflexes in petit mal epilepsy in children. Vop. psikh i nevr. no.3:197-203 '58. (MIRA 12:3)

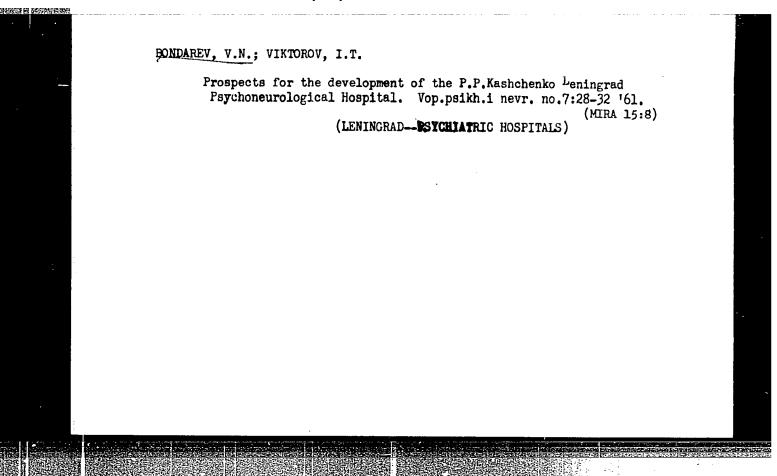
1. Iz psikhiatricheskoy kliniki Leningradskogo pediatricheskogo meditsinskogo instituta.

(EPILEPSY) (REFLEXES)

BONDAREV, V. N., Candidate Med Sci (diss) -- "On pyknolepsy in children (Clinical-experimental investigation)". Leningrad, 1959. 15 pp (Leningrad Pediatric Med Inst, Leningrad City Council of Workers' Deputies, Executive Committee, Dept of Health), 250 copies (KL, No 24, 1959, 148)

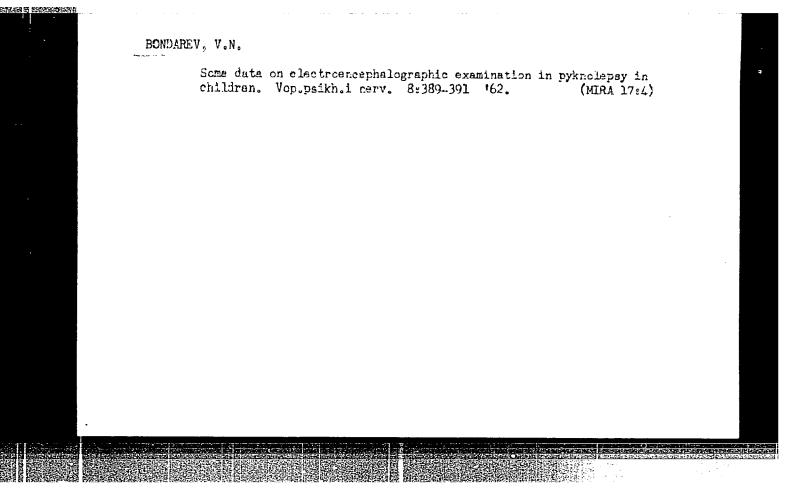
Galvanic cutaneous reflexes in "petit mal" in children. Zhur.
nevr.i psikh. 60 no.7:352-355 '60. (MIRA 14:1)

1. Kafedra psikhiatrii (zav. - prof. S.S. Mnukhin) Leningradskogo pediatricheskogo meditsinskogo instituta.
(EPILEPSY) (REFLEXES)



BONDAREV, V.N., kand.med.nauk Obsessive and compulsive states and their connections to epilepsy.

> 1. Leningradskiy pediatricheskiy meditsinskiy institut. Nauchnyy rukovoditel' - prof. S.S.Mnukhin. (EPILEPSY) (MENTAL ILLNESS)



"APPROVED FOR RELEASE: 06/09/2000 CIA-RDI

CIA-RDP86-00513R000206220018-0

BCHDAREV, V.H.; VOYTINSKIY, Ye.Ya.

Character of the electroencephalogram in schizophrenic patients with a manifest psychic defect. Zhur. nevr. i psikh. 62 no.5:735-739 '62. (MIRA 15:6)

1. Leningradskaya psikhonevrologicheskaya bolinitsa imeni P.P. Kashehonko (glavnyy vrach - kandidat meditsinskikh nauk V.N. Bondarev).

(ÉLECTROENCEPHALOGRAPHY) (SCHIZOTHRENIA)

Pyknolepsy in children; clinical experimental studies. Zhur. nevr. i psikh. 61 no.7:1083-1087 '61. (MIRA 15:6) 1. Leningradskaya psikhonevrologicheskaya bol'nitsa imeni P.P. Kashchenko (glavnyy vrach V.N. Bondarev). (EPILERY)

BONDAREV, V.N.; VOYTINSKIY, Ye.Ya. DEDOV, V.F.

Late results of prefrontal leukotomy according to clinical, X-ray and electroencephalographic data. Zhur. nevr. i psikh. 62 no.12:1874-1878 '62 (MIRA 16:11)

1. Laningradskiy psikhonevrologicheskly institut imeni V.M. Bekhtereva (dir.-kand. med. nauk B.A.Lebedev) i Leningradskaya psikhonevrologicheskaya bol'nitsa imeni P.P.Kashchenko (glavnyy vrach L.P.Durova, nauchnyy rukovoditel'-prof. Ye.S. Averbukh).

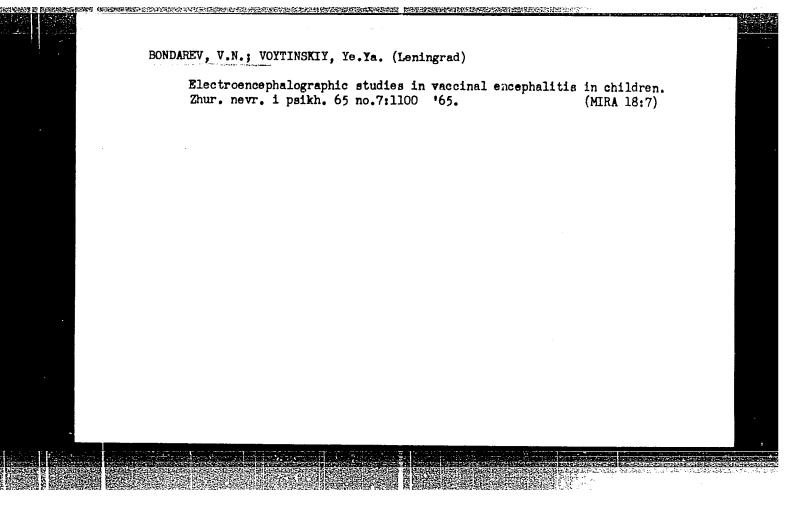
BONDAREV, V.N.

Noural and mental disorders in children during continuatoroid treatment. Zhur. nevr. i psikh. 63 no.7:1094-1096 163.

(MIRA 17:7)

1. Leningradskiy namehno-issledovatel'skiy institut detskikh infektsiy (dir. - prof. A.L. Libov).

APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206220018-0"



ACCESSION NR: AP4015267

S/0226/64/000/001/0065/0070

AUTHORS: Bondarev, V. N.; Samsonov, G. V.

TITLE: Production of molybdenum and chromium germanides

SOURCE: Poroshkovaya metallurgiya, no. 1, 1964, 65-70

TOPIC TAGS: molybdenum germanide, chromium germanide, germanium, VCh molybdenum, chromium, electrolytic chromium, TVV oven, OPPIR pyrometer, URS-501 x ray assembly

ABSTRACT: The purpose of this work was to determine optimal conditions for baking the initial materials to be used in obtaining Mo₃Ge and Cr₃Ge with a beta-W lattice. The initial materials were monocrystalline germanium with the specific electrical resistivity 3 ohm cm, molybdenum powder of the type VCh, and electro-lytic chromium. Well dried and sieved (0.05 mm mesh), Mo and Ge powders were mixed for 12 hours and pressed into bars 12-14 mm long and 8 mm in diameter. The baking temperature was measured in a TVV-4 oven (under high argon pressure) with an OPPIR pyrometer. The x-ray enalysis of the sample structure was made in the URS-50I assembly. The samples were baked at 980, 1000, 1300, 1600, and 18000 for different periods of time. It was established that Mo₃Ge can be obtained by

Card 1/2

ACCESSION NR: APLO15267

baking the pressed samples at 1780-18000 for 4 hours. The temperature of the Ko-Ge melting was 1830-18500. The compound Cr_Ge was obtained by a direct melting of the components at 1520-15400. Orig. art. has: 4 tables.

ASSOCIATION: Institut problem materialovedeniya AN USSR (Institute on the Problems of Materials Science AN UMrSSR); Khimiko-metallurgicheskiy institut SO AN SSSR (Institute of Metallurgy SO AN SSSR)

SUBMITTED: Ohmar63

DATE ACQ: 12Mar64

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SUB CODE: ML

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Card 2/2

Bondarev, V.N.

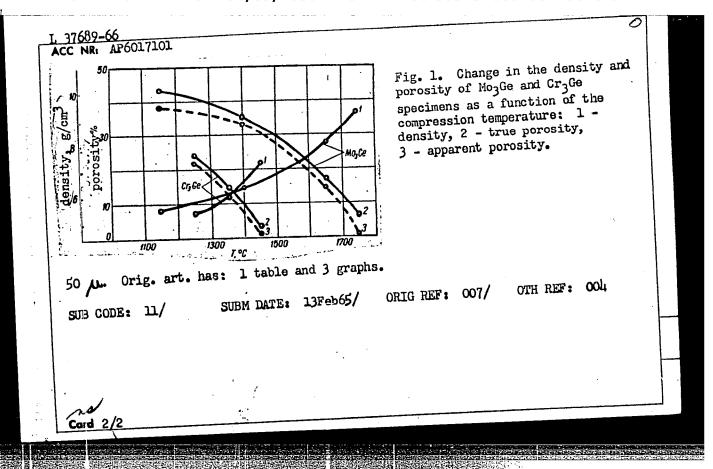
Investigation of synthesis of transition-metal

Title: Seminar on refractory metals, compounds, and alloys (Kiev, April 1963.

Source: Atomnaya energiya, v. 15, no. 3, 1963, 266-267

JD/JG 37689-66 EWT(m)/EWP(t)/ETI ACC NR: AP6017101 SOUNCE CODE: UR/0226/66/000/001/0035/0040 AUTHOR: Bondarev, V. N. (Novosibirsk) ORG: none TITLE: Preparation of molybdenum and chromium germanides and the investigation of some of their properties SOURCE: Poroshkovaya metallurgiya, no. 1, 1966, 35-40 TOPIC TAGS: molybdenum compound, chromium compound, germanium compound, powder metal sintering, porosity, temperature dependence, electric resistance ABSTRACT: A sintering compression method for the preparation of MogGe and CrgGe is described. The dependence of the porosity of the specimens on particle size, temperature, and duration of hot pressing was studied. In addition, the pycnometric and x-ray densities, microhardness, and electrical resistance of MogGe and CrgGe were measured. The germanides were synthesized after the method of V. N. Bondarev and G. V. Samsonov (Poroshkovaya metallurgiya, No. 1, 65, 1964). The experimental results are presented in graphs and tables (see Fig. 1). It is concluded that the optimum conditions for the synthesis of Mo₃Ge are: 165Q--1740C, compression time 3--5 min, particle size 50 µ; for Cr3Gr: 1450C, compression time 3--5 min and particle size <u>Card</u> 1/2

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SOURCE CODE: UR/0226/66/000/006/0052/0059

ORG: Institute of Physicochemical Principles for Ore Processing, AN SSSR (Institut fiziko-khimicheskikh osnov pererabotki mineral' nogo syr' ya AN SSSR) Institute for Problems in Science of Materials, AN UkrSSR (Institut problem materialovedeniya AN USSR);

TITLE: Metal: chemistry of germanides 17

SOURCE: Poroshkovaya metallurgiya, no. 6, 1966, 52-59

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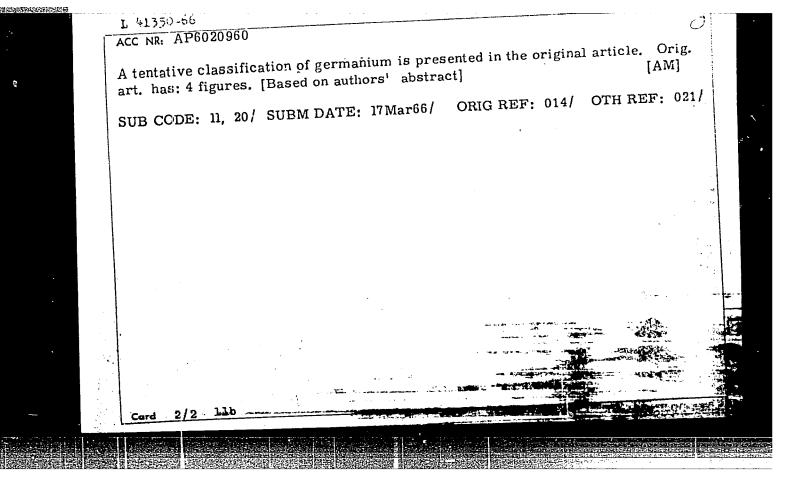
TOPIC TAGS: germanide, germanium elassification, crystal configuration, electron structure, electron interaction, metal chemical analysis

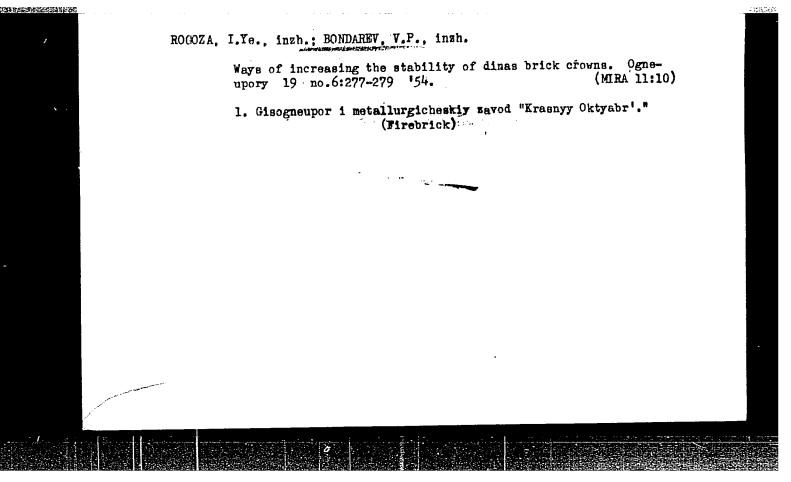
ABSTRACT: Data on the interaction of germanium with the elements of periodic system are discussed on the basis of the electronic structure of isolated atoms, as well as on the basis of ideas on the formation of stable configurations in crystals.

Card 1/2

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ACC NR: AP6020960





DONDHKEY, VIT. 5-2-21/35 USSR/Geology SUBJECT: Bondarev, V.P. AUTHOR: On the Genesis of Secondary Quartzites of the Rudnyy Altay (K TITLE: vopresu o genezise vterichnykh kvartsitov Rudnogo Altaya) Byulleten' Meskovskoge Obshchestva Ispytateley Prirody, Otdel PERIODICAL: Geelegicheskiy, 1957, # 2, pp 154-155 (USSR) The study of secondary quartzites in the Bukhtarma region of ABSTRACT: the Rudnyy Altay has led the author to their classification into 3 genetic types which differ from one other in their genesis, mineral composition, structure, conditions of stratification and lecalization; Those eriginated as a result of fumarole-solfatara activity of Devenian volcanism; 2. These connected with the hydro-thermal activity of Hercynian magmatism: a. developed in contact parts of granitoid massifs and b. associated with tectonic dislocation zones, 3. Those originated by re-crystallization and re-depositing of silica-rich rocks affected by ore-bearing solutions. Card 1/2

5-2-21/35

TITLE:

On the Genesis of Secondary Quartzites of the Rudnyy Altay (K voprosu o genesise vtorichnykh kvartsitov Rudnogo Altaya)

Secondary quartzites of the 3rd type are closely connected with ore-processes and are found in many polymetal deposits of the

Rudnyy Altay.

No references are cited.

ASSOCIATION: Moskva Society of Investigators of Nature

PRESENTED BY:

SUBMITTED':

On 10 January 1957

AVAILABLE: At the Library of Congress.

Card 2/2

BCNDAREV, V.P.: Master Geolog-Mineralo Sci (diss) -- "The compostion of ores, changes in the gangue content, and some features of the formation of the Zavod and Paryga polymetallic deposits of the Rudnoy Altay". Moscow, 1958. 28 pp (Min Higher Educ USSR, Moscow Inst of Nonferrous Metals and Gold im M.I. Kalinin), 150 copies (KL, No 1, 1959, 116)

AUTHOR: Bondarev, V.P. SOV/130-58-11-6/16

TITLE: Improving the Production of Chromium-Molybdenum Steels

(Usovershenstvovaniye proizvodstva khromomolikdenovykh

staley)
PERIODICAL: Metallurg, 1958, Nr 11, pp 13 - 15 (USSR)

ABSTRACT: When chromium molybdenum steels were produced in 1950 at the "Krasnyy Oktyabr'" works for rolling into 180-250 mm diameter sections there was a high reject rate due to blisters under the crust. Some improvement was obtained

blisters under the crust. Some improvement was obtained with type 12MKh and 15KhM steels by melting them without preliminary deoxidation in the furnace with silicon. This technique was worked cut jointly by the works TsZL and the Akademiya nauk USSR (Academy of Sciences of the Ukr. SSR). In 1957 tests were carried out to find the optimal ingot weight and teeming practice to enable flame deseaming before rolling to be eliminated. The steels (12MKh, 15KhM and 12KhMF) were melted in the normal way, described by the author, and tapmed at 1630-1660°C into 6.1 instead of the usual 5.0-tonne ingot moulds. The moulds

card 1/2 instead of the usual 5.0-tonne ingot moulds. The mould were painted with dried (less than 0.5% moisture) coal

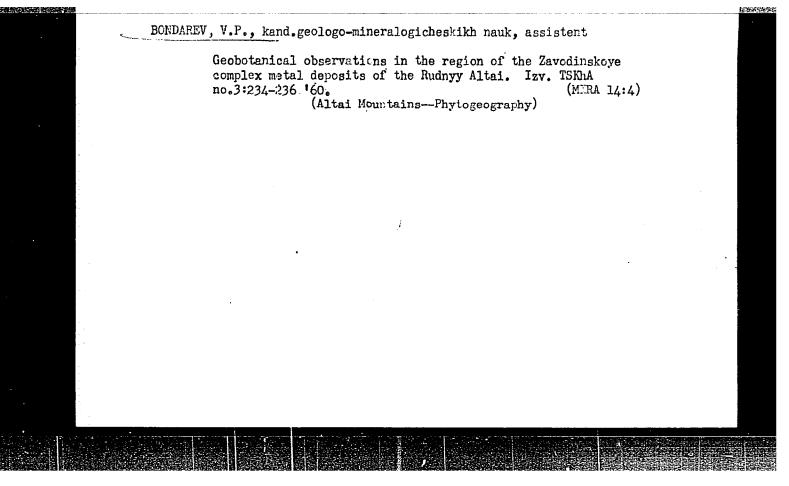
SOV/130-58-11-6/16

Improving the Production of Chromium-Molybdenum Steels

lacquer and containing wooden frames. Pouring rate was controlled to prevent crust formation till the metal was one third of the way up the mould; bot-top mixture (1-28) was applied when the metal had filled two thirds of the hot-top. The use of the larger ingot moulds eliminated the blister trouble. All the test-heat ingots were rolled to 150-250 mm sections which were cocled for 72 hours in a pit. The non-metallic inclusions were well within the specifications of TU 2581 and the mechanical properties were all better than required. With the 6.1-tonne ingots metal loss after casting the ingots has been considerably reduced, from the old value of 35%.

ASSOCIATION: Zavod "Krasnyy Oktyabr'" ("Krasnyy Oktyabr'" Works)

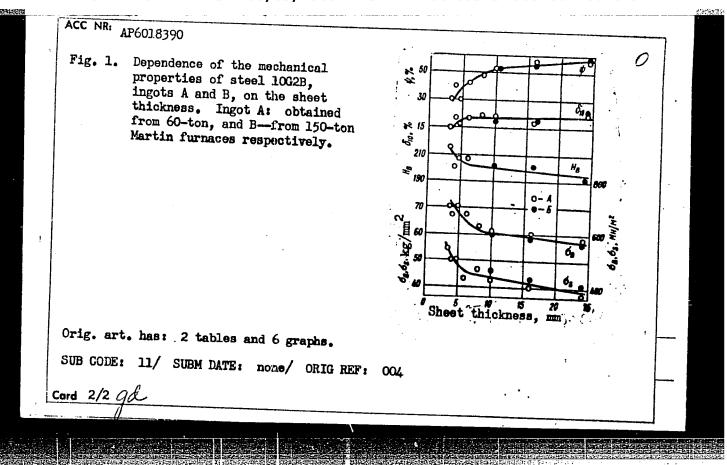
Card 2/2



Carbonate rocks as a raw material for the liming of sour soils based on a study of the surrounding regions of the "Dubki" training farm in the Naro-Fominek region, Moscow Province. Izv. vys. ucheb. zav.; geol. i razv. 7 no.11:66-70 N '64. (MIRA 18:5) 1. Timiryazevskaya sel'skckhozyaystvennaya akademiya.

Volumble raw material for mineral fertilizers; let's make wide use of industrial waste. Priroda 53 no.8:68-73 '64. (Miss 17:9)
l. Moskovakaya sal'akokhozyayatvennaya akademiya im. Timiryazova.

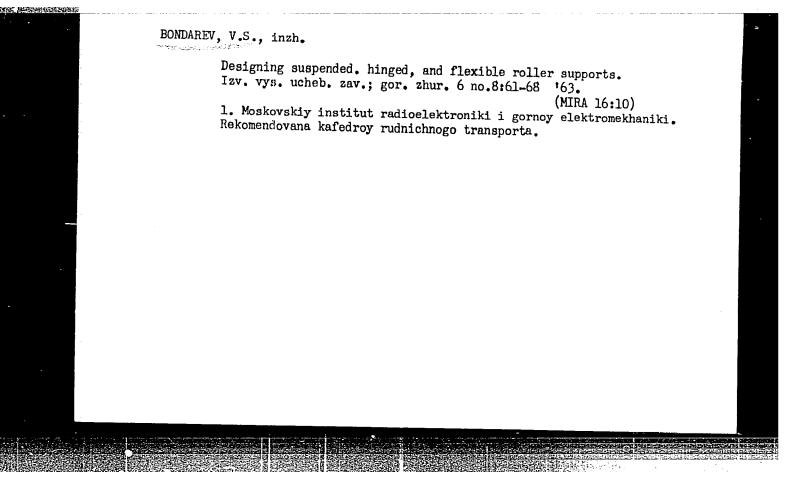
JD/JG L 04312-67 EWI(m)/EWP(t)/ETI ACC NR: AP6018390 SOURCE CODE: UR/0133/66/000/006/0540/0543 Sandler, N. I.; Dobruskina, Sh. R.; Zadorozhnaya, L. K.; Bondarev, V. P.; Fel'dman, E. I. ORG: Ukrainian Scientific Research Institute for Metals (Ukrainskiy n.-i. institut metallov); Factory "Red October" (Zavod Krasnyy Oktyabr') TITLE: Low alloy manganese sheet steel containing niobium SOURCE: Stal', no. 6, 1966, 540-543 TOPIC TAGS: alloy steel, niobium, sheet metal, metallurgic research / 10G2B alloy steel ABSTRACT: The effect of small additions (0.033% and 0.035%) of niobium to steel 1002B on the mechanical properties and microstructure of the latter was investigated. The investigation supplements the results of an earlier study by N. I. Sandler, Sh. R. Dobruskina, and S. T. Zaykov i dr. (Stal', 1965, No. 2). The specimens were obtained from 60- and 150-ton Martin steel furnaces of the "Red October" steel plant. The experimental results are presented in graphs and tables (see Fig. 1). It was found that steel 10G2B with 0.033% Nb smelted in 60- and 150-ton Martin furnaces possesses satisfactory mechanical properties and may be recommended for use in construction of agricultural machines and automobiles. Card 1/2UDC: 669.15-194:669.74:669.293



"Experience in Designing 2-Trough Vibration Conveyors in the VNIITs vet met Institute."

report presented at a coordination Conference on Problems of Design and Testing of Vibration type machinery, Mining Institute, Acad. Sci. USSR, 9-10 July 1958.

(Izv. AN SSSR, Otdel Tekh Nauk 1958, No. 11, p. 152)



GOL'DBERG, Mikhail Markovich; ZAKHAROV, Vasiliy Aleksandrovich; KAZANSKIY,
Yuriy Nikolayevich; LEONT'YEVA, Valentina Petrovna; LOSEV, Ivan
Platonovich, doktor khim.nauk, prof.; TROSTYANSKAYA, Yelena
Borisovna, doktor tekhn.nauk, prof.; KHAZANOV, Grigoriy Mikhaylovich; CHEBOTAREVSKIY, Vladimir Vladimirovich; SHEYDEMAN, Igor'
Yur'yevich; BONDAREV, V.S., inzh., retsenzent; PANSHIN, B.I., kand.
tekhn.nauk, nauchnyy red.; TUBYANSKAYA, F.G., izdat.red.; ROZHIN,
V.P., tekhn.red

[Nonmetallic materials and their use in airplane construction]
Nemetallicheskie materialy i ikh primenenie v aviastroenii. Pod
obshchei red. I.P.Loseva i E.V.Trostianskoi. Moskva, Gos. izd-vo
obor. promyshl., 1958. 428 p. (MIRA 11:7)

l. Kafedra "Tekhnologiya obrabotki nemetallicheskikh materialov"

Moskovskogo aviatsionnogo tekhnologicheskogo instituta i kafedry

"Materialovedenie" Moskovskogo aviatsionnogo ordena Lenina
instituta imeni S.Ordshonikidze (for all except Bondarev, Panshin,
Tubyanskaya, Roshin)

(Airplanes -- Desing and construction)
(Nonmetallic materials)

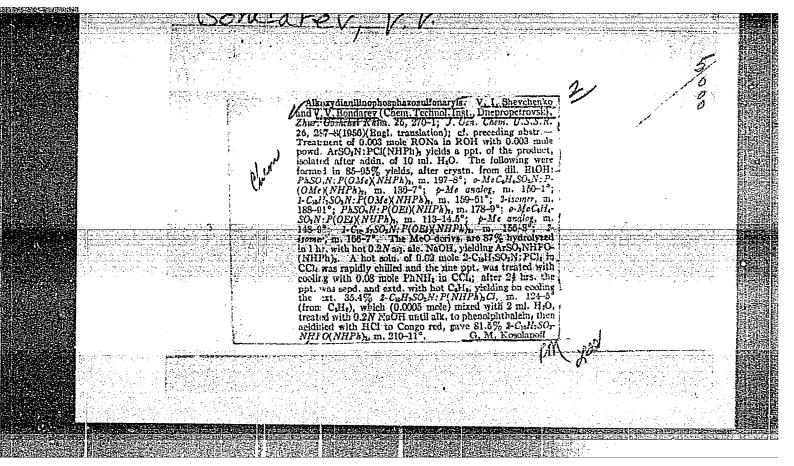
BONDAREV, V.S., inzh.

Study and calculation of the loading part of a belt conveyor.

Izv.vys.uchev.zav.;gor.zhur. 7 no. 4:129-137 '64. (MIRA 17:7)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki.

"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000206220018-0



ALABUZHEV, P.M., prof.; BONDAREV, V.V., inzh.; ZUYEV, A.K., inzh.; KOPEYKIN, G.F., inzh.; TRUS', A.M., inzh.; YARUNOV, A.M., inzh.

Dynamic strength of springs in impact action machines. Izv.vys. ucheb.zav.; gor.zhur. 7 no.12:58-64 464. (MIRA 18:2)

1. Novosibirskiy elektrotekhnicheskiy institut. Rekomendovana kafedroy teoreticheskoy mekhaniki.

L 16919-65 EVT(n)/EVP(v)/EVA(d)/EMP(t)/EWP(k)/EWP(b) Pf-l IJP(c) NJW/JD/EK \$/0135/64/000/009/0016/0017 ACCESSION NR: AP4045721 AUTHOR: Bondarev, V. V. (Engineer); Nikiforova, Z. V. (Engineer); Ban kayskaya, I. V. (Engineer) TITLE: Brazing of titanium plated with copper 21 Svarochnoye proizvodstvo, no. 9, 1964, 16-17 TOPIC TAGS: titanium brazing, OT4 titanium alloy brazing, copper plated titanium brazing, brazed joint microstructure, brazed joint strength ABSTRACT: Flat plates of OT4 titanium alloy [U. S. RS110B] with a copper coating 10-30 w thick were brazed to round copper bars using a preplaced 0.1 mm thick strip of brazing alloy (68% Ag, 27% Cu, 5% Sn). The assembled components were pressed together with a pressure of $2-3~{\rm kg/mm}^2$ to ensure a close contact between them and brazed in a vacuum of 0.001 mm Hg at 780-840C. It was found that for strong joints, titanium should have a plated copper layer 15-20" thick. Brazing should be done so as to form a diffusion zone 7-12u thick between the titanium and the coating. This can be accomplished Card 1/2

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ACCESSION NR: AP4045721

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by brazing for 15-20 min at 790-810C. Brazing in this temperature range produced the strongest joints, with a tensile strength of 17,2-22.1 and 20.8-22,8 kg/mm² at 400C. At brazing temperatures higher than 820C, the reaction of titanium with the copper coating produces a brittle cutectic layer. The diffusion zone of the strongest joints is a titanium-copper solid solution with small inclusions of a second phase (1000-3000 Å in size). These inclusions strengthen the solid solution by pinning the dislocations. Orig. art, has: 4 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00 SUB CODE: MM, IE

NO REF SOV: 000

OTHER: 000

Cord 2/2

ACCESSION NR: AT4007055

5/2598/63/000/010/0317/0321

AUTHOR: Shinyayev, A. Ya.; Bondarev, V. V.

TITLE: Brazing of electroplated AT-3 titanium alloy

SOURCE: AN SSSR. Institut metallurgii. Titan i yego splavy*, no. 10, 1963. Issledovaniya titanovy*kh splavov, 317-321

TOPIC TAGS: titanium alloy brazing, AT-3 alloy brazing, AT-3 alloy electroplating, electroplated alloy brazing, silver coating, rhenium coating, rhodium coating, aluminum titanium chromium alloy, iron containing alloy, silicon containing alloy, boron containing alloy.

ABSTRACT: The authors investigated the effect of brazing coated AT-3 alloy on the stress rupture strength and adhesive properties of the electrochemical coatings of Ag, Rh, and Re as well as the effect of temperature and time to perform the electrolysis on the strength of the coated metals. The time to perform the electrolysis depended on the desired thickness of the galvanic coating. Microscopic investigation of the brazed alloys revealed that under equal brazing conditions an Rh coating produces a wider diffusion zone than do those of Ag and Re. This agrees with the characteristic rate of diffusion of the coating elements, which is much larger for Ag and Re than for Rh.

ACCESSION NR: AT4007055

Satisfactory adhesive properties were obtained. It was proved that the coatings protect titanium satisfactorily against oxidation and diffusion of the brazing elements. Studies of the stress rupture strength of the brazed coated AT-3 proved that the maximum rupture strength for AT-3 with a Ag coating is reached at lower temperatures (780-790 C) than for Re (790-800 C) and Rh (800-8100) coatings. Orig. art. has: 4 figures & 2 tables.

ASSOCIATION: Institut metallurgii AN SSSR (Metallurgical Institute', AN SSSR)

SUBMITTED: 00

DATE ACQ: 27Dec63

ENCL: 00

SUB CODE: ML, MA

NO REF SOV: 005

OTHER: 000

Card

2/2

SHINYAYEV, A.Ya.; BONDAREV, V.V.

Investigating diffusion processes in the soldering of titanium alloys. Trudy Inst. met. no.12:121-124 163. (MIRA 16:6)

(Diffusion coatings)
(Titanium alloys—Welding)

ACCESSION NR: AT4009496

8/2509/63/000/014/0086/0089

AUTHOR: Bondarev, V. V.; Shinyayev, A. Ya.

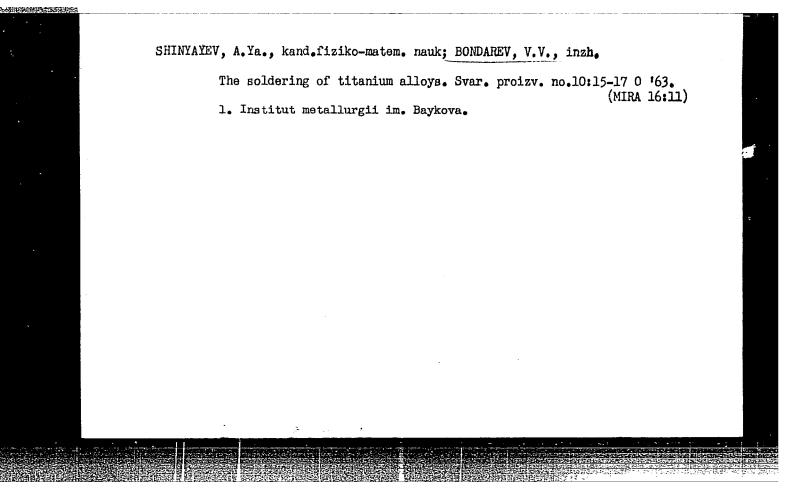
TITIE: Investigation of diffusion processes in soldering titanium with a rhenium coating

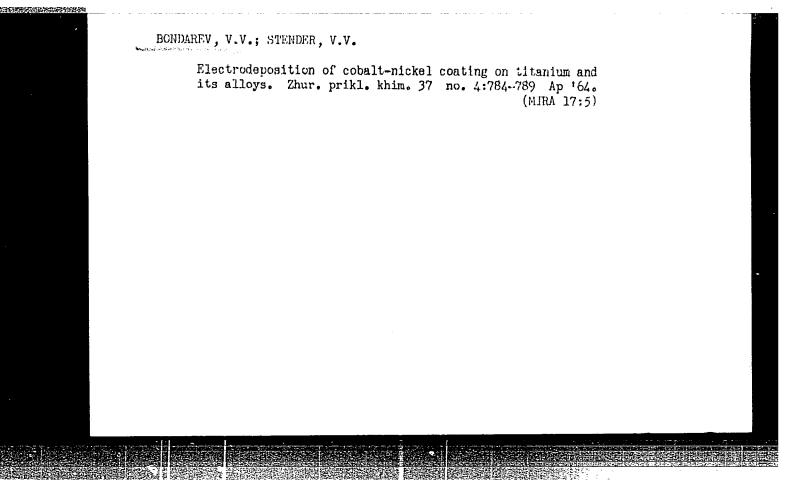
SOURCE: AN SSSR. Institut metallurgii. Trudy*, no. 14, 1963. Metallurgiya, metallovedeniye, fiziko-khimicheskiye metody* issledoveniya, 86-89

TOPIC TAGS: titanium, titanium soldering, soldering, rhenium coating, electroplating, titanium pickling, vacuum soldering

ABSTRACT: Because considerable difficulty is encountered in soldering titanium with other metals, the possibility of using rhenium to protect titanium alloys during high temperature soldering was investigated. Because rhenium is very strong and resistant to corrosion, it was expected that the soldered joints would have high mechanical strength. It was difficult to get a galvanic covering on titanium with strong adherence because of the formation of an oxide form on the surface. The most effective way to eliminate this form was pickling in hot sulfuric acid, thereby forming a surface hydroxide layer to protect the metal from further oxidation. An electromechanical process was used for the Re costing on 5 Ti-alloy Cord 1/2

Accession NR: AT400	•	•	
soldering in a vacuu	then put in packages with copper plates as Microstructural examinations established formed between the titanium and its cover-	ing. Results of	
	of metallographic examinations show that were obtained by soldering at 780-820 C for	Tr 17=21 minuvebe	
The strength attaine high temperatures, t place which causes b	d was 19 kg/mm with a menium covering on he formation of chemical compounds of the crittleness of connections in the diffusion	tone Regims takes	-
The strength attaine high temperatures, t place which causes b weakening. Orig. ar	he formation of chemical compounds of the rittleness of connections in the diffusion to hea: I table and I figure.	type RegiT15 takes zone and marked	
The strength attaine high temperatures, t place which causes b weakening. Orig. ar	d was 19 kg/mm with a menium covering on he formation of chemical compounds of the crittleness of connections in the diffusion	type RegiT15 takes zone and marked	
The strength attaine high temperatures, to place which causes be weakening. Orig. ar ASSOCIATION: Instit	he formation of chemical compounds of the rittleness of connections in the diffusion to has: I table and I figure. ut metallurgii AN SSSR (Metallurgical Institution)	type RegiTi5 takes zone and marked itute)	
The strength attaine high temperatures, to place which causes howevering. Origo are ASSOCIATION: Institute SURMITTED: OO	he formation of chemical compounds of the rittleness of connections in the diffusion to has: I table and I figure. ut metallurgii AN SSSR (Metallurgical Inst. DATE ACQ: 25Jan64	type RegiTi5 takes zone and marked itute) ENCL: 00	





ACCESSION NR: APLOLL899

\$/0032/64/030/009/1106/1109

AUTHORS: Shinyayev, A. Ya; Bondarev, V. V.; Chernenko, M. S.

TITLE: Study of the mutual diffusion of metals by weakening of radioactive radiation

SOURCE: Zavodskaya laboratoriya, v. 30, no. 9, 1964, 1106-1109

TOPIC TAGS: diffusion annealing, radioactivity measurement/ TH 20 radiation counter

ABSTRACT: The authors propose a method for studying the chemical composition of zones of mutual diffusion. This method is based on the weakening of intensity of a narrow beam of gamma rays from a steady source. The principle requires a very narrow but intense beam of radiation, a means of positioning the specimen with great accuracy (within a few microns), and a maximal suppression of background in the counter (from scattering of electrons and gamma rays). A special apparatus was designed to meet these requirements. The radiation source was Te¹²⁷. For detection, a TM-20 counter was employed. A supplementary lead shield, 10 mm thick, was used to cut down on background noise. Diffusion pairs of Ti-No and Ti-Ni were studied, and the results are shown graphically in Fig. 1 on the

ACCESSION NR: AP4044899

Enclosure. These results show that the weakening of a narrow beam of gamma rays may be used to analyze composition in the diffusion zone between metals when these metals are perfectly or partially soluble in each other. Quantitative determination requires diffusion annealing at a given temperature. The time of annealing must be chosen so as to give a diffusion zone 100 microns or more wide. Data on distribution of diffusing elements may be used to compute all diffusion characteristics of the mutual process. A major advantage of the method is the possibility of studying all elements in the periodic system, including the light elements. Orig. art. has: 3 figures and 3 formulas.

ASSOCIATION: Institut metallurgii im. A. A. Baykova (Institute of Metallurgy)

SUBMITTED: 00

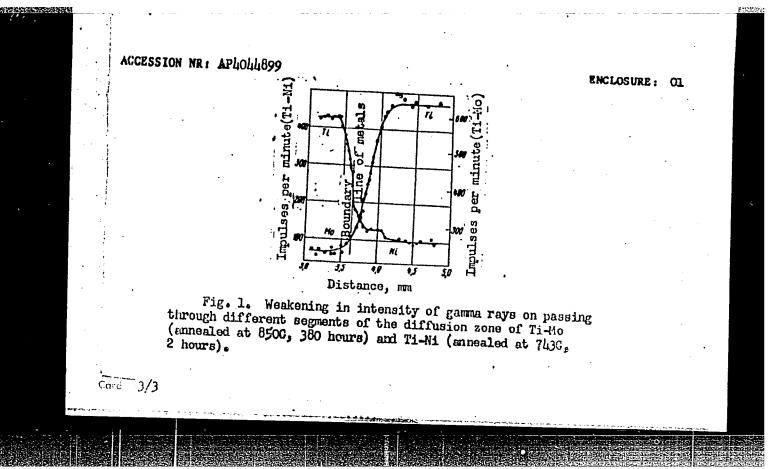
ENCL: 01

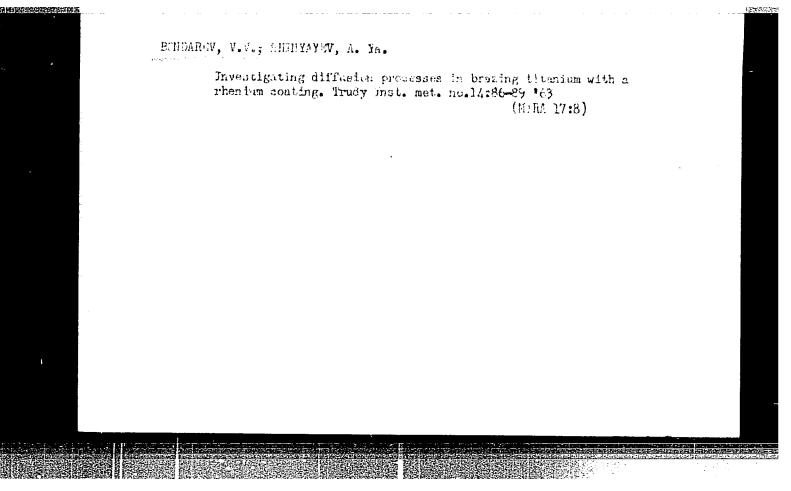
SUB CODE: MI, NP

NO REF SOV: OOL

OTHER: 003

-ord 2/3





- 1	ACC NR: AR6015964 SOURCE CODE: UR/0277/65/000/012/0059/0059
	AUTHOR: Alabuzhev, P. M.; Bondarev, V. V.; Kopeykin, G. F.; Trus', A. M., Yarunov
	TITLE: Calculating the durability of cylindrical coil springs in impact-action machines
	SOURCE: Ref. zh. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin. Gidroprivod, Abs. 12.48.486
	REF SOURCE: Sb. dokl. k Novosib. nauchno-tekhn. konferentsii po mashinostr. Ch. 2 Novosibirsk, 1964, 51-57
	ABSTRACT: A method is proposed for calculating the durability of cylindrical coil springs. The method is based on the energy theory for loss of work capacity of a spring under rotating loading. A formula is given for preliminary determination the service life to destruction of a spring in impact-action machines. [Translation of abstract]
	SUB CODE: 13
	Card 1/1 egh UDC: 621-272.2.001.24

S/0080/64/037/004/0784/0789

ACCESSION NR: AP4032499

AUTHOR: Bondarev, V. V.; Stender, V. V.

TITLE: Electroplating a cobalt-nickel coating on titanium and its alloys

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 4, 1964, 784-789

TOPIC TAGS: titanium, titanium alloy, coated titanium, coated titanium alloy, copper nickel electroplating, coating adhesion, oxidation, surface property, coating strength, microfracture, soldering, titanium coating heat treatment, diffusion zone, Ti₂Ni, Ti₂Co

ABSTRACT: The possibility of electroplating strongly adherent cobalt-nickel coatings onto titanium and its alloys containing α , α - β , and β -phase stabilizing additives (VT-1, VT-5, OT-4, T-3, T-4, IRM-1, IRM-2) to improve their surface properties was investigated. It was found that adherence depends on the phase composition and the degree of stress of the base metal. Heat treating under vacuum significantly improves the adhesion of the coating. Maximum

Card 1/2

ACCESSION NR: AP4032499

strength was attained at 780-820C when a diffusion zone was formed comprising a solid solution of the coating components and titanium (Ti₂Ni and Ti₂Co) and separate non-overlapping sites in which a new phase, measuring 1800-2000 Å, was deposited. At higher temperatures the new phase overlaps continuously forming microfractures which reduce the strength of the coating. 15-25 micron Co-Ni coatings are not oxidized at 750-840C under vacuum of 5 x 10⁻²- 10⁻⁵mm. Hg, are readily wet by solders, but do not dissolve in them. Hence Co-Ni coated titanium and its alloys are protected during soldering with hard solders with different metals. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: None.

SUBMITTED: 16Apr62

ENCL: 00

SUB CODE: MM

NO REF SOV: 008."

OTHER: 002

Cord 2/2

BONDAREV, V.V., inzh.; Nikiforova, Z.V., inzh.; Eshikovskaya, I.V., inzh.

Brazing titanium with the use of copper electroplating.

Svar. proizv. no.9:16-17 S '64.

(MIRA 17:12)

L 39975-65 EPA(s)-2/EWP(k)/EMP(z)/EWA(c)/EWT(m)/EPA(bb)-2/EMP(b)/T/EWA(d)/EMP(v)/EWP(t) Pf-L/Pt-10/Pad IJP(c) JM/MJM/JD/HM/HM/GS

ACCESSION NR: AT4048087

5/0000/64/000/000/0289/0293

69

AUTHOR: Shinyayev, A. Ya.; Bondarev, V. V.; Sergeyeva, Ye. V.

+1

TITLE: Investigation of mutual diffusion of titanium with copper and other metals in soldered joints /5 27 27

SOURCE: Soveshchaniye po metallurgii, metallovedeniyu i primeneniyu titana i yego splavov. 5th, Moscow, 1963. Metallovedeniye titana (Metallography of titanium); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 289-293

TOPIC TAGS: titanium, titanium diffusion, titanium copper diffusion, titanium silver diffusion, titanium chromium diffusion, titanium soldering

ABSTRACT: The authors' previous publications have shown that the strength of soldered titanium joints is determined by the phase structure of the diffused layer formed between the titanium and the protective galvanic coating during soldering. Attempts were therefore made to determine the mutual diffusion of titanium and ther metals between 200 and 800C in order to evaluate the service life of a idered joints. The tests were made with silver, copper, nickel, CONS alloy 70% Co by weight), chromium, rhodium and rhenium on titanium and AT3, AT4, VT1, VT4, VT5 and

Cord 1/3

L 39975-65

ACCESSION NR: AT4048087

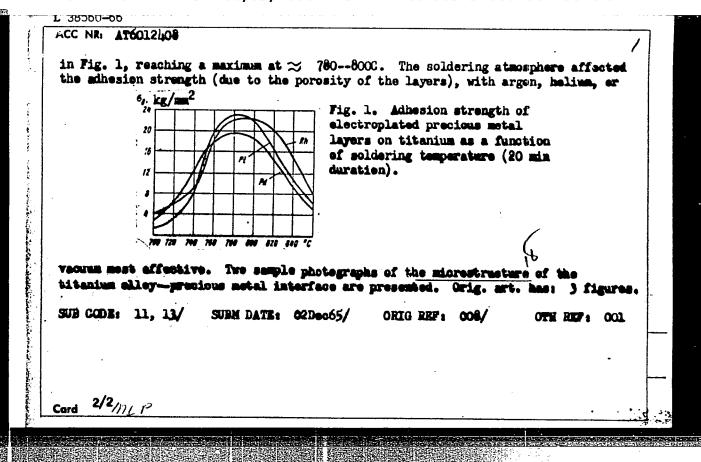
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other titanium alloys. The samples were first etched in 40% sulfuric acid at 80±20 for 10-40 minutes. The kinetics of the process of mutual diffusion were then studied by calculating the rate of mutual diffusion as a function of the working temperature and by finding the phases formed between the titanium and metals dissolved in the titanium. Microscopic analysis was used to observe the mutual diffusion. At temperatures up to 400C, there is almost no diffusion. At 500C, mutual diffusion is observed between titanium and copper, and titanium and silver. Noticeable diffusion between titanium and Ni or Ti and the Co-Ni alloy begins only at temperatures above 600-700C, and for the Cr coating - above 700C. At these temperatures, the service life of soldered joints drops sharply. The service life can also be evaluated by determining the chemical composition of the diffusion zone. This is done by radioactive techniques. The sample is located on a plate which slides along slots made in a holder, and the radiation is registered by a TM-20 meter located above the upper screens of the holder. By means of curves plotted according to the meter readings, and knowing the attenuation coefficient in pure components and in a two-component medium, it is possible to find the distribution of diffused elements in the diffusion zone. The results of this investi-

Card 2/3

1 39975-65 ACCESSION NR: AT4048087 gation allow one to conclude that the process of mutual diffusion of titanium with other elements develops at the following temperatures: silver and copper - above 500C, Co-Ni alloy - above 600C, chromium - above 700C. The formation of large (0.2-0.5 micron) zones of a second phase due to micro-cracks in the diffusion zone of a Ti-galvanic coating at working temperatures leads to abrupt weakening of the soldered joint and its failure, Orig. art. has: 3 figures and 1 table. ASSOCIATION: None SUB CODE: MM ENCL: SUBMITTED: 15Ju164 OTHER: NO REF SOV: 001 Cará 3/3 Mt

L 38560-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/EWP(k)/ETI/EWP(h)/EWP(1)ACC NR: AT6012408 JD/JG/GD SOURCE CODE: UR/0000/65/000/000/0309/0311 AUTHORS: Bondarev, V. V.; Shinyayev, A. Ya. 3+1 ORG: mone TITLE: Diffusion layers and strength of soldered joints of titamium using electroplating of precious metals SOURCE: Soveshchamiye po metallokhimii, metallevedeniyu i primenemiyu titana i yago aplavev, 6th. Novyye issledovaniya titanovykh aplawev (New research on titanium alloys); trudy seveshchaniya. Moscor, Ind-ve Nauka, 1965, 309-311 platinum, palladium, rhodium, adhesion,
TOPIC TAMS: Adiffusion soldering, metal seldering, metallurgic testing machine,
titanium alloy, electroplating / R-5 metallurgic testing machine ABSTRACT: The authors' previous work on the strength of diffusion soldered joints (Svarochnoye proisvodstvo 1963, No. 10,15) is supplemented by this investigation of the adhesion strength of electroplated processes, balladium, and rhodium layers on a titanium alloy base under different conditions of heat treatment. Adhesion strength was measured by soldering soft and hard solder to the electroplated layers and applying a tensile load on an R-5 testing machine. It was found that by using cold solder (72--128C melting temperature) adhesion strengths of 0.3--1.2, 0.2--0.3 and 0.8-1.8 kg/mm2 were obtained respectively for Pl, Pd, and Rh. Adhesion strength increased considerably with increasing soldering temperature (hard solder) as shown Card 1/2



L 38559-66 EWI(m)/EWP(V)/1/EMP(C)/E11/EMP(C)	
ACC NR. AT6012407 SOURCE CODE: UR/0000/65/000/000/0305/0306	
AUTHORS: Shinyayev, A. Ya.; Bondarev, V. V.	
ORG: none	
TITLE: Diffusion soldering of titanium	
metallovedenivu i primenenivu titana i yego	
splayov, 6th. Novyye issledovaniya titanovykii splayov (New 1856atoli oli 1866atoli ol	
TOPIC TAGS: Attanium alloy, metal soldering, diffusion soldering, metal joining /	
ABSTRACT: Diffusion soldering of AT3 and OT4 titanium alloys through an intermedia	
was investigated. The soldering was performed in a vacuum () is a	
of the soldered joints were measured for various temperature considered through	
a 20-25 micron thick copper layer. Above this temperature and so stronger and then decreased	
soldered joint increased to 25 kg/mm at 7400 (15 5 termediate layer for higher soldering temperatures. Soldering with the triple intermediate layer	
Cord 1/2	

SUB CODE:	11, 13/	SUBM DATE:	02Dec65/	ORIG REF:	002/	OTH REF:	002
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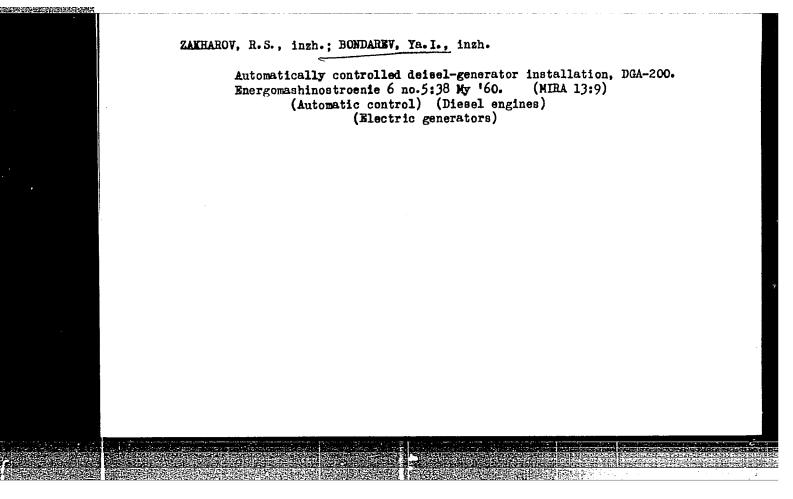
L 03035-67 EWP(k)/EWT(m)/T/EWP(v)/EWP(t)/ETT IJF(c) JD/HH SOURCE CODE: UR/0135/66/000/007/0014/0016 ACC NR: AP6023437 AUTHOR: Shinyayev, A. Ya. (Candidate of physico-mathematical sciences); Bondarev, V. V. (Candidate of technical sciences) ORG: IMYET im A. A. Baykov (IMYET) TITLE: Diffusion brazing of titanium with the aid of intermediate galvanic coatings SOURCE: Svarochnoye proizvodstvo, no. 7, 1966, 14-16 TOPIC TAGS: metal diffusion plating, titanium alloy/ VTl titanium alloy, AT3 titanium alloy, OT4 titanium alloy ABSTRACT: The conditions for producing high strength titanium joints by means of diffusion brazing and intermediate galvanic coatings with a low melting eutectic serving as a golder are studied. Tests were made on VT1! AT3/and OT4 titanium alloy specimens. Copper and layers of Cu-Ni-Cu and Cu-(CO-Ni)-Cu were used as galvanic coatings. Titanium specimens were degreased by organic and standard chemical solutions. Scale and oxide layers were cleaned by sandblasting, then pickled in a mixture of fluoric and nitric acids. The titanium hydrate layer was found by dipping the specimens in a 40% sulphuric acid solution at 80 * 2°C for 30 min. Galvanic coatings 20-25 μ thick were deposited from standard electrolytes and cyanide electrolytes on the surfaces to be brazed. Brazing conditions: vacuum-- 10⁻²-10⁻³ mm/Hg (0°C), unit pressure--3-5 kg/cm² brazing temperature -- 860-1000°C. Exposure varied from 1 min to 1 hour and the speciunc: 621.791.3:539.378.3.621.357.7.669.295 Card 1/2

エ ひろひろうーのて ACC NR: AP6023437 0 mens were tested for tensile strength; joints were always sheared by the eutectic. With higher temperature, the eutectic components diffused into the base metal, decreasing the thickness of the eutectic and increasing the strength of the joint. The optimal temperature range was found to be 940-960°C. Higher temperatures (1000°C) caused considerable growth in grain size in the base metal, decreasing the strength of the joint. Electron microscope has shown that the eutectic had many overlapped microcracks of 0.2--0.4 µ in diameter. In order to reduce this destructive effect, the entectic thickness must be brought to an optimal value of 6-9 µ. However, the eutectic could be replaced by a "diffusion zone" of thickness 30-40 µ if the brazing process was carried out at temperature >930°C. The maximum strength was: 1) 26-28 kg/mm² for the copper galvanic coating when exposed for (15-30 min) at temperatures of 960-970°C; 2) 38-40 kg/mm² for (Cu-Ni-Cu) coating when exposed for 15-30 min at 960-970°C; 3) 67-75 kg/mm² for [Cu-(Co-Ni)-Cu] coating when exposed for 15 min at temperatures of 960-970°C. Orig. art. has: 2 figures, 1 table. SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 006 Card 2/2

BONDAREV, V.Ya.

Epidemiology and the prevention of trichinelliasis in the Adyge Autonomous Province. Med. paraz.i paraz.bol. 34 no.4:445-447 Jl-Ag '65. (MIRA 18:12)

1. Parazitologicheskiy otdel Adygeyskoy oblastnoy sanitarno-epidemiologicheskoy stant**si**i, Maykop. Submitted April 13, 1964.

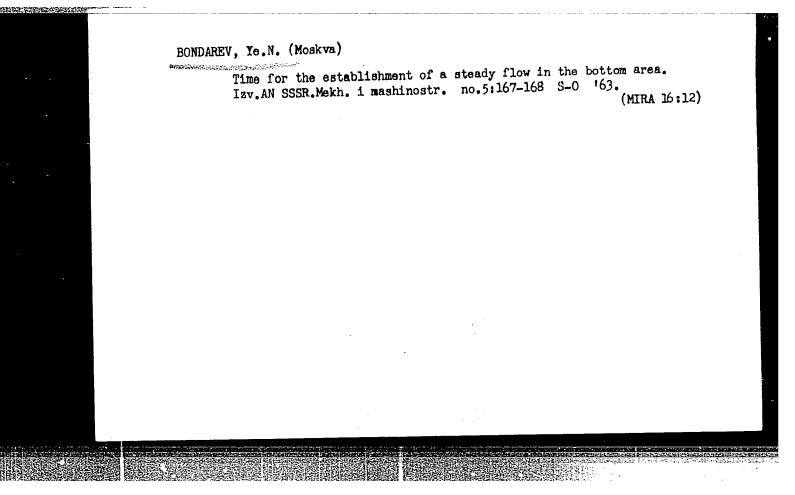


BONDAREV, Yakov Leont'yevich; GRANFER, Arnol'd Grigor'yevich; PFRFILOV, I.F., inzh., red.

[Preparing large reinforced concrete pipes and silo rings with immediate removal of forms; practices of the No.23 Plant for Reinforced Concrete Products of the Main Administration of the Building Materials Industry of Moscowl Izgotovlenie krupnorazmernykh zhelezobetonnykh trub i silosnykh kolets s nemedlennoi raspalubkoi; opyt zavoda zhelezobetonnykh izdelii No.23 Glavmospromstroimaterialov. Moskva, Gosstroiizdat, 1963. 44 p. (MIRA 17:12)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.

2. Direktor zavoda zhelezobetornykh izdeliy No.23 Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley (for Bondarev). 3. Nachal'nik pro-izvodstvenno-tekhnicheskogo otdela zavoda zhelezobetornykh izdeliy No.23 Glavnogo upravleniya promyshlennosti stroitel'nykh materialov i stroitel'nykh detaley (for Grayfer).



Increasing bottom pressure beyond the wedge in flights at hypersonic speed. Izv.AN SSSR. Otd.tekh.nauk.Mekh.i mashinostr. no.5:186 S-0 '60. (MIRA 13:9)

(Aerodynamics, Hypersonic)

ACCESSION NR: AP4041425

8/0179/64/000/003/0166/0167

AUTHOR: Bondarev. Ye. N.

TITLE: Approximate evaluation of the effects of a turbulent boundary layer and the ratio of specific heat capacities on the base pressure behind a flat recess

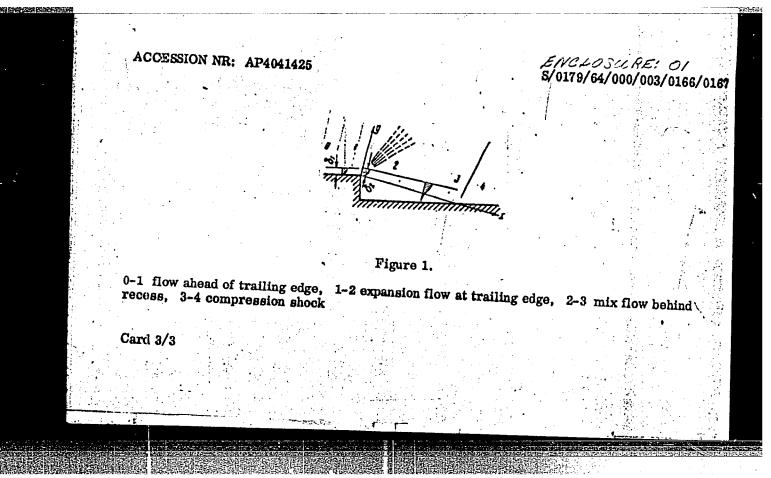
SOURCE: AN SSSR. Izv. Mekhanika i mashinostroyeniye, no. 3, 1964, 166-167

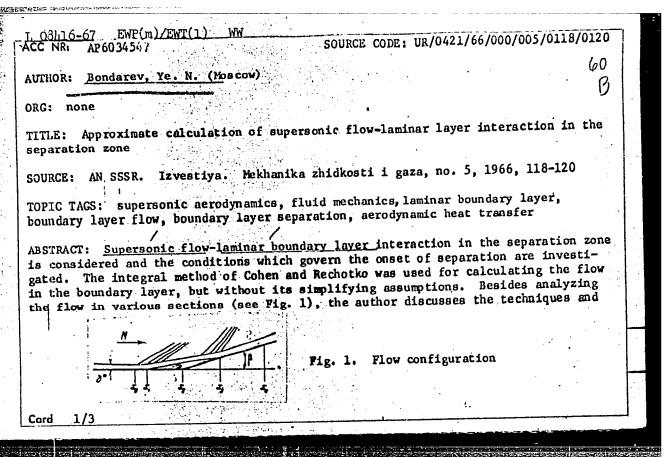
TOPIC TAGS: base pressure, flat recess pressure diagram, turbulent boundary layer effect, specific heat capacity effect, base pressure calculation, flat recess aerodynamic characteristic, aerodynamics

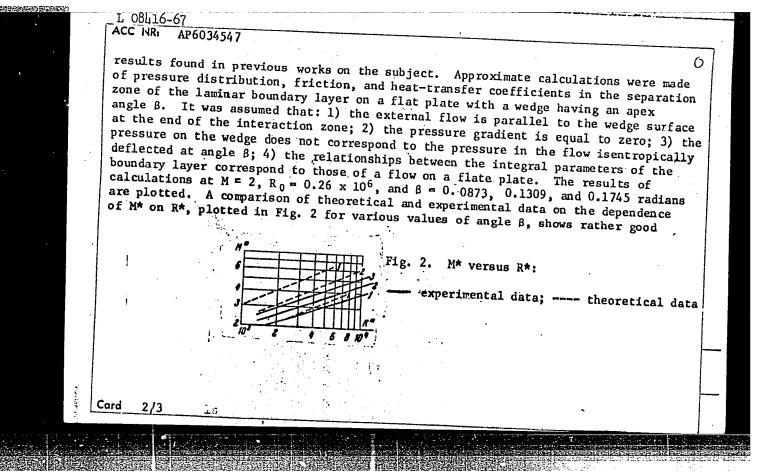
ABSTRACT: The author assumes, in contrast to previous publications, that full pressure is preserved along each stream of gas in a boundary layer when a flow is deflected at a base recess (see Fig. 1 in the Enclosure), since the flow expansion area behind cross sections 1 and 2 is small and corresponds in magnitude to the thickness of the boundary layer \mathcal{E}_1 in the onrushing flow. It is further assumed that velocity profiles in area 3 are similar to those for area 2 at $h \gg \mathcal{E}_1$ (where h is the height of a recess) and are independent of the boundary layer, while the scale coefficient \mathcal{E}_1 (governed by the magnitude of turbulent viscosity in the flow's boundary layer) is similar to that for free flows. Results indicate

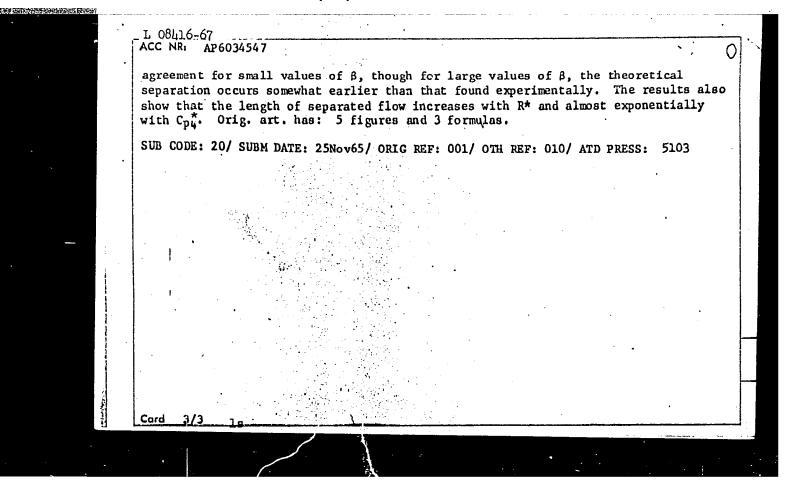
Card 1/3

ACCESSION NR: AP404125 that base pressure increases with \$\sqrt{h}\$, while the effect of a boundary layer increases with \$M_1\$. Basic pressure exhibits little variation in relation to changes in specific heat \$\frac{1}{3}\$ at low \$M_1\$ numbers and increases with \$\sqrt{a}\$ at \$M_1\$ = 3 or 4. Orig. art. has: 3 graphs and 3 equations. ASSOCIATION: none SUBMITTED: 12Nov63 DATE: 2001 SUB CODE: ME NO REF SOV: 001 OTHER: 001				<i>†</i>		
that base pressure increases with \$\frac{1}{2}\h, while the effect of a boundary layer increases with \$\frac{1}{2}\h, \text{ Basic pressure exhibits little variation in relation to changes in specific heat \$\frac{1}{2}\text{ at low M}_1\text{ numbers and increases with \$\frac{1}{2}\text{ at M}_1\text{ = 3 or 4. Orig. art. has: 3 graphs and 3 equations.} ASSOCIATION: none SUBMITTED: 12Nov63						
M ₁ . Basic pressure exhibits little variation in relation to changes in specific heat 3 at low M ₁ numbers and increases with 3 at M ₁ = 3 or 4. Orig. art. has: 3 graphs and 3 equations. ASSOCIATION: none SUBMITTED: 12Nov63 DATE: 201 SUB CODE: ME NO REF SOV: 001 OTHER: 001	ACCESSION NR: AP4	041325	,		en e	
ASSOCIATION: none SUBMITTED: 12Nov63 DATE: 20 151 ENCL: 01 SUB CODE: ME NO REF SOV: 001 OTHER: 001	M ₁ . Basic pressure e low M ₁ numbers and in	whihits little var	lation in relation	to changes in spec	citic heat σ at	
SUB CODE: ME NO REF SOV: 901 OTHER: 001						
2/3	SUBMITTED: 12Nov6	3 / DA	i. 71 29		ENCL: 01	
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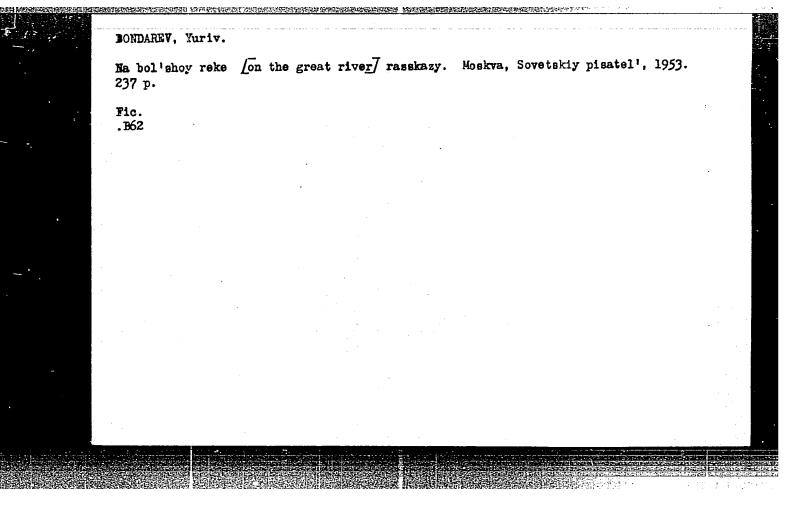


BONDAREV, Ye. Z.

Astronomy - Study and Teaching

Ideological and political education of students during lessons of astronomy, Fiz. v shkole, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified



BONDAREV, Yuriy Alekseyevich; YEREMIN, N.I., red.; KHAKHAM, Ya.M.,
tekhn. red.

[Use of plastics in the manufacture of machinery] Ispol'zovanie
plastnass v mashinostroenii. Ul'ianovsk, Ul'ianovskoe knizhnoe
izd-vo, 1960. 36 p. (MIRA 16:7)
(Machinery-Design and construction) (Plastics)

- 1. BONDAREV, YU. F.
- 2. USSR (600)
- 4. Cattle
- 7. Red Steppe cattle. Sov. zootekh. 7 No.2, 1952. Kandidat Sel'skokhozyayst vennykh Nauk Vssesoyuznyy Institut "Askaniya-Nova"
- 9. Monthly List of Russian Accessions, Library of Congress. August, 1952. Unclassified.

BONDAREV

USSR / Farm Animals.

Q-2

Abs Jour : Ref Zhur - Biol., No 10, 1958, No 45165

Author

: Bondarev, Yu. F.

Inst

: Not given

Title

: The Raising and Utilization of the Breeding Bulls of the

Red Steppe Breed,

Orig Pub : Vestn. a.-kh. n., 1957, No. 1, 71-79

Abstract : On the basis of the study and of the summing up of the experience of leading kolkhozes and sovkhozes, and as a result of pertinent experiments carried out, the Institute "Askaniya-Nova" has developed a differentiated system for raising young bulls and heifers, from birth up to adult age; the recommended daily feeding formulas for the breeding bulls and the directions for their management are also provided.

Card 1/1

0,-3

USSR/Farm Animals - Cattle.

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 30945

Author

Bondarev Yu.F.

Inst Title : On the Unsystematic Crossing and Purebred Raising of the

Red Steppe Cattle.

(O bessistemnom skreshchivanii i chistoporodnom razvede-

nii krasnogo stepnogo skota).

Orig Pub

: Molochn. i myasnoye zhivotnovodstvo, 1957, No 5, 36-38

Abstract

: Brief characteristics (milk yield, milk fatness, live weight and slaughter output) of the Red Steppe breed are given. The unsystematic crossing of this breed with other breeds (meat type, dairy type, fat-dairy type) is pointed out. The purebred raising of the Red

Steppe cattle is recommended.

Card 1/1

0,-2

USSR/Farm Animals - Cattle.

: Nof Zhur - Blol., No 1, 1959, 2633 Abs Jour

Author

: Ukrainian Scientific Research Institute of Animal Hussan-

dry "Askaniya-Nova"

: The Evolution of the Red Stappe Breed of Cattle. Inst

Tr. Ukr. n.-i. in-ta z ivotnovodstva "Askaniya-Rova", Title Orig Pub

1957, 6, 113-128.

In 1955 the number of animals of the Red Steppe brack in Abstract

kolkhozes and sovkhozes amounted to approximately 3.8 million head, or 24.3% of the total pedigreed earth.

In the modern herds of this breed, the milk yield has doubled compared with the year 1910, and the live weight increased by 15-20%. On the leading, farms, the mean milk

Card 1/2

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Increasing the fat content of milk in Red Steppe cattle. Zhivotnovodstvo 21 no.5:72-77 ky '59. (MIRA 12:7)

1. Odesskaya gosudaratvennaya sel'skokhozyaystvennaya opytnaya
stantsiya. (Dairy cattle breeding)

